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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,789	03/26/2004	Mark Lynch	MNDSPD.0027P	9620
53388 73	590 10/23/2006		EXAM	INER
WEIDE & MILLER - MINDSPEED			PATEL, PARESH H	
7251 WEST LAKE MEAD BLVD. SUITE 530 LAS VEGAS, NV 89128				
			ART UNIT	PAPER NUMBER
			2829	

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\mathcal{S}_{\mathcal{V}}$				
	Application No.	Applicant(s)				
	10/810,789	LYNCH, MARK				
Office Action Summary	Examiner	Art Unit				
	Paresh Patel	2829				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MOI tatute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 3	11 July <u>2006</u> .					
3) Since this application is in condition for all						
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>11-18 and 24-36</u> is/are pending ir	the application					
4a) Of the above claim(s) <u>11-18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>24-36</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers	•					
9) The specification is objected to by the Exam		icated to by the Everiner				
10) ☐ The drawing(s) filed on 26 March 2004 is/a Applicant may not request that any objection to						
Replacement drawing sheet(s) including the co						
11) The oath or declaration is objected to by the	•					
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bu	reau (PCT Rule 17.2(a)).	•				
* See the attached detailed Office action for a	list of the certified copies not	t received.				
•						
Attachment(s)						
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application						
3) XI Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>ク</u> ダーの 4	6) Other:					

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, claims 24-29 and new claims 30-36 in the reply filed on 07/31/2006 is acknowledged. The traversal is on the ground(s) that claims are connected in design, operation and effect. This is not found persuasive because they have different design, operation and effect. However, in view of election of fig. 3, the prior art found and to expedite the prosecution, claims 24-36 are examined here.

The requirement is still deemed proper and is therefore made FINAL.

Applicant's attorney is right about class 267 understanding. It should read --class 257-- instead "class 267", at page 2 of the office action dated 04/28/2006.

Specification

2. The disclosure is objected to because of the following informalities: as an example, at paragraph 045, "the loop 304" should read --the loop of a trace 304---. Similarly at paragraph 047, "the package 130" should read --the package 120---. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Appropriate correction is required.

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Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the one or more layers of metal of claim 28 and a flip chip operation on via two or more solder bumps of claim 35 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claim 24 is objected to because of the following informalities: the phrase "at least one conductor" as claimed for coupling with first pad and second pad needs correction because they are separate conductors. For example, claim language should be --at least one conductor-- and --at least one another conductor--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 26, what is not clear is how one electrical path (e.g. trace 304 or 308) comprises two electrical paths between first (144 at one end of 304 or 308) and second pad (144 at one another end of 304 or 308)?

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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8. Claims 24-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang et al. (US 5302022).

Regarding claims 24, 30, 32-34 and 36, Huang et al. (hereinafter Huang) in fig. 2-6 discloses a test (non-functional) die [101] having a two or more bonding pads (accept a pressure forced) [202a, 202b, 203a, 203b] and one or more traces (between pads) [206]; a package [e.g. 105]; two or more contacts (points) [e.g. 107]; and two or more conductors (wirebonds) [e.g. 104], as further claimed.

Regarding claim 25, Huang discloses the package comprises at least one of a package design and a material set [see lines 54 of column 6 to line 42 of column 7], as further claimed.

Regarding claim 26, as best understood by examiner, Huang discloses two electrical paths [206], as further claimed.

Regarding claims 27 and 31, as best understood by Examiner, Huang discloses the points comprises wire leads [107].

Regarding claim 28, Huang discloses a die consist of two or more electrical paths [206], one or more layers of metal [e.g. 102] and one or more layers of insulator [substrate 101].

Regarding claim 29, Huang discloses multi-chip module as further claimed [see lines 6-19 of column 4, particularly last six lines].

Regarding claim 35, Huang discloses a flip chip operation as further claimed [see lines 6-19 of column 4, particularly last six lines. Because, for example, said flip chip operation is inherent to one of MCM, CPGA, PPGA, MQFP and PLCC].

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paresh Patel whose telephone number is 571-272-1968. The examiner can normally be reached on 8:00 to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha Nguyen can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Paresh Patel Primary Examiner

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October 15, 2006